

Claims

1 1. A method for promoting bone, periodontium
2 or ligament growth of a mammal comprising applying to
3 said bone, periodontium, or ligament a growth-promoting
4 amount of a composition comprising a partially purified
5 or purified polypeptide growth factor.

1 *a* 2. A method for promoting periodontium or
2 ligament growth of a mammal comprising applying to said
3 periodontium, or ligament a growth-promoting amount of a
4 composition comprising a partially purified or purified
5 polypeptide growth factor or a partially purified or
6 purified differentiation factor.

1 *a* 3. The method of claim 2, said applying step
2 comprising applying a combination of a said polypeptide
3 growth factor and a said differentiation factor.

1 *a* 4. The method of claim 1 or 2 wherein said
2 polypeptide growth factor is chosen from
3 platelet-derived growth factor, insulin-like growth
4 factor I, and insulin-like growth factor II.

1 *a* 5. The method of claim 2 wherein said
2 polypeptide growth factor is chosen from transforming
3 growth factor β 1, transforming growth factor β 2, and
4 transforming growth factor α .

1 *a* 6. The method of claim 2 wherein said
2 differentiation factor is chosen from a bone
3 morphogenetic protein and osteogenin.

1 *a* 7. The method of claim 1 or 2 wherein said
2 polypeptide growth factor is platelet-derived growth
3 factor.

1 *a* 8. The method of claim 3, wherein said
2 polypeptide growth factor is partially purified or
3 purified PDGF and said differentiation factor is
4 partially purified or purified bone morphogenetic
5 protein.

1 *a* 9. The method of claim 1 or 2 wherein said
2 periodontium includes bone, cementum, and periodontal
3 ligament.

1 *a* 10. The method of claim 1 wherein said bone,
2 preriodontium or ligament is damaged by disease, and
3 said method comprises applying to said mammal a
4 disease-healing amount of said growth factor.

1 *a* 11. The method of claim 2 wherein said
2 preriodontium or ligament is damaged by disease, and
3 said method comprises applying to said mammal a
4 disease-healing amount of said growth factor.

1 *a* 12. A method for preparing a composition for
2 promoting bone, periodontium or ligament comprising
3 mixing partially purified or purified platelet-derived
4 growth factor in a pharmaceutically acceptable carrier
5 substance.

1 *a* 13. The method of claim 12, wherein said
2 pharmaceutically acceptable carrier substance is a
3 natural or synthetic polymer.

1 *a* 14. The method of claim 12, wherein said
2 pharmaceutically acceptable carrier substance is a bone
3 substituting agent.

1 *a* 15. The method of claim 12 wherein said
2 pharmaceutically acceptable carrier substance is a
3 viscous liquid or gel.

1 *a* 16. The method of claim 8 or 12 wherein said
2 platelet derived growth factor is purified.

1 *a* 17. The method of claim 1 wherein said growth
2 factor is purified.

1 *a* 18. The method of claim 2 wherein said growth
2 factor or differentiation factor is purified.

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